



PTO/SB/21 (08-03)  
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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

19 + 185  
Refs.

Application Number	10/523,250
Filing Date	January 26, 2005
First Named Inventor	Marc K. HELLERSTEIN
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	416272003800

### ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
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<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	1. One Copy of each 185 Cited References
<input checked="" type="checkbox"/> Information Disclosure Statement w/ Form PTO/SB/08a/b (18 pages)	<input type="checkbox"/> CD, Number of CD(s)	2. Return Receipt Postcard
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<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		
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	<input type="checkbox"/> Remarks	

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

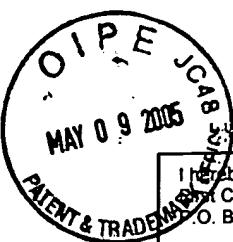
Firm or Individual name	MORRISON & FOERSTER LLP (Customer No. 20872) Michael R. Ward - Reg. No. 38,651
Signature	
Date	May 6, 2005

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(Leah Kjellen)

Patent  
Docket No. 416272003800  
B01-075

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:  
Marc K. HELLERSTEIN

Serial No.: 10/523,250

Filing Date: January 26, 2005

For: METHOD FOR AUTOMATED, LARGE-  
SCALE MEASUREMENT OF THE  
MOLECULAR FLUX RATES OF THE  
PROTEOME OR THE ORGANEOME  
USING MASS SPECTROMETRY

Examiner: Not Yet Assigned

Group Art Unit: Not Yet Assigned

### SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §1.97 and § 1.98, Applicant submit for consideration in the above-identified application the documents listed on the attached Form PTO/SB/08a/b. Copies of foreign documents and non-patent literature are submitted herewith. The Examiner is requested to make these documents of record.

This Supplemental Information Disclosure Statement is submitted:

- With the application; accordingly, no fee or separate requirements are required.
- Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114. However, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided.
- Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required. However, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided.**
- After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
  - A fee is required. A check in the amount of \_\_ is enclosed.
  - A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
  - A Certification under 37 C.F.R. § 1.97(e) is provided above; accordingly; no fee is believed to be due.
- After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
  - A Certification under 37 C.F.R. § 1.97(e) is provided above and a check in the amount of \_\_ is enclosed.
  - A Certification under 37 C.F.R. § 1.97(e) is provided above and a Fee Transmittal form (PTO/SB/17 is attached to this submission in duplicate.)

Applicant would appreciate the Examiner initialing and returning the Form PTO/SB/08a/b, indicating that the information has been considered and made of record herein.

The information contained in this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

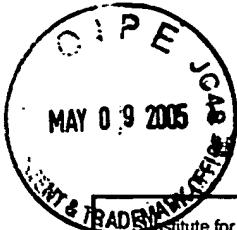
In the unlikely event that the transmittal form is separated from this document and the Patent and Trademark Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. § 1.17 (p)) is required, Applicant petitions for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petition and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing docket no. **416272003800**.

Dated: May 6, 2005

Respectfully submitted,

By Michael R. Ward  
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Registration No.: 38,651

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MAY 09 2005

ALTERNATIVE TO PTO/SB/08a/b (06-03)

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	10/523,250
				Filing Date	January 26, 2005
				First Named Inventor	Marc K. HELLERSTEIN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	15	Attorney Docket Number	416272003800

<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
1.	US-4,332,784		06-01-1982	Smith et al.	
2.	US-5,338,686		08-16-1994	Hellerstein	
3.	US-5,439,803		08-08-1995	Ross et al.	
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5.	US-5,961,470		10-05-1999	Wagner et al.	
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9.	US-6,468,802-B1		10-22-2002	Yatscoff et al.	
10.	US-6,599,750-B2		07-29-2003	Yatscoff et al.	
11.	US-6,602,715-B2		08-05-2003	Yatscoff et al.	
12.	US-6,653,076		11-25-2003	Franza, Jr. et al.	
13.	US-6,653,090-B1		11-25-2003	Lopaschuk	
14.	US-6,808,875-A1		10-26-2004	Hellerstein	
15.	US-2003/0133871-A1		07-17-2003	Hellerstein	
16.	US-2003/0148533		08-07-2003	Malloy et al.	
17.	US-2003/0180710		09-25-2003	Lee et al.	
18.	US-2003/0180800		09-25-2003	Lee et al.	
19.	US-2003/0224420-A1		12-04-2003	Hellerstein et al.	
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21.	US-2004/0081994		04-29-2004	Hellerstein	
22.	US-2004/0091943		05-13-2004	Schneider	
23.	US-2004/0115131-A1		06-17-2004	Hellerstein	
24.	US-2004/0152994		08-05-2004	Meier-Augenstein	
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27.	US-2005/0053992-A1		03-10-2005	Hellerstein	
28.	US-10/519,121		FD 09-15-2003	Hellerstein	
29.	US-10/526,860		FD 09-04-2003	Hellerstein	
30.	US-10/872,280		FD 06-17-2004	Hellerstein	
31.	US-10/963,967		FD 10-12-2004	Hellerstein	
32.	US-10/997,323		FD 11-23-2004	Hellerstein	
33.	US-11/064,197		FD 02-22-2005	Hellerstein	
34.	US-11/078,083		FD 03-11-2005	Hellerstein	
35.	US-11/094,387		FD 03-29-2005	Hellerstein	

Examiner Signature	Date Considered
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Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/523,250
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Sheet	2	of	15	Attorney Docket Number	416272003800

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
36.	WO-90/11371		10-04-1990	Anticancer, Inc.		
37.	WO-93/25705		12-23-1993	Barranco		
38.	WO-98/51820		11-19-1998	Hellerstein		
39.	WO-03/061479-A1		07/31/2003	Hellerstein		
40.	WO-03/068919-A2		08/21/2003	Hellerstein		
41.	WO-03/087314-A2		10/23/2003	Hellerstein		
42.	WO-04/003493-A2		01/08/2004	Hellerstein		
43.	WO-04/011426-A2		02/05/2004	Hellerstein		
44.	WO-04/021863-A2		03/18/2004	Hellerstein		
45.	WO-04/024941-A2		03/25/2004	Hellerstein		
46.	WO-04/025270-A2		03/25/2004	Hellerstein		
47.	WO-04/042360-A2		05/21/2004	Hellerstein		
48.	WO-05/009597-A2		02/03/2005	Hellerstein		
49.	WO-05/015155-A2		02/17/2005	Hellerstein		
50.	WO-05/033652-A2		04/14/2005	Hellerstein		

\*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T <sup>2</sup>
	51.	International Search Report mailed on April 13, 2004, for PCT application no. PCT/US03/20052 filed on June 25, 2003, 3 pages				
	52.	International Search Report mailed July 8, 2004, for PCT patent application no. PCT/US03/27623 filed on September 4, 2003, 4 pages				
	53.	International Search Report mailed on June 29, 2004, for PCT application no. PCT/US03/04183 filed on February 12, 2003, 4 pages				
	54.	International Search Report mailed on July 9, 2004, for PCT application no. PCT/US03/35107 filed on November 4, 2003, 2 pages				
	55.	International Search Report mailed on August 18, 2004, for PCT application PCT/US03/29526, filed September 16, 2003, 3 pages				
	56.	International Search Report mailed on August 20, 2004, for PCT application no. PCT/US03/10554 filed on April 4, 2003, 4 pages				

Examiner Signature	Date Considered
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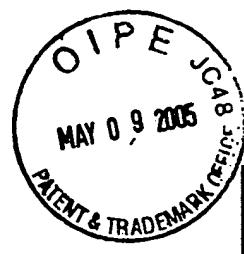
 INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

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Application Number				10/523,250
Filing Date				January 26, 2005
First Named Inventor				Marc K. HELLERSTEIN
Art Unit				Not Yet Assigned
Examiner Name				Not Yet Assigned
Sheet	3	of	15	Attorney Docket Number 416272003800

57.	International Search Report mailed on January 19, 2005, for PCT application no. PCT/US03/29361 filed on September 15, 2003, 4 pages	
58.	International Search Report mailed on March 25, 2005, for PCT application no. PCT/US04/39722 filed on November 24, 2004, 3 pages	
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60.	"New Diagnostic Technique Could Help Treat AIDS," Agence France-Presse, Dow Jones News/Retrieval, Feb. 17, 1998, pp. 1-2.	
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67.	ATTARDI, Giuseppe et al. (1988) "Biogenesis of Mitochondria." <i>Ann. Rev. Cell. Biol.</i> 4:289-333	
68.	BACH, Simon P. et al. (2000) "Stem Cells: The Intestinal Stem as a Paradigm" <i>Carcinogenesis</i> 21(3): 469-476	
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Examiner Signature		Date Considered
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

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First Named Inventor	Marc K. HELLERSTEIN				
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Sheet	4	of	15	Attorney Docket Number	416272003800

71.	BERTANI, Roberta et al. (January 2002) "Measurement of Total Body Water (TBW) Through In Vivo Dilution of Tracer Compounds: Use of D2O and its Determination by FT Infrared Spectroscopy" <i>Annali diChimica</i> 92:135-138	
72.	BICKENBACH, J.R. (1981) "Identification and Behavior of Label-Retaining Cells in Oral Mucosa and Skin" <i>J Dent Res</i> 1611-1620	
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77.	BONOTTO, S. et al. (1977) "Study of the Distribution and Biological Effects of 3H in the Algae Acetabularia, Chlamydomonas and Porphyra" <i>Current Topics in Radiation Quarterly</i> 12: 115-132	
78.	BRAVO, Elena et al. (1994) "Decreased Hepatic Uptake and Processing of High Density Lipoprotein Unesterified Cholesterol and Cholestryl Ester with Age in the Rat" <i>J. Biochem.</i> 116: 1088-1095	
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81.	CALDWELL, K.A. et al. (1993) "Quantification of Peptide Isotopomer Abundances and Determination of Protein (sic) Turnover Rates by Using Mass Isotopomer Distribution Analysis" <i>Abstract, 41st Annual Amer. Society Mass Spectrometry on Mass Spectrometry</i> , p. 331a.	
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Examiner Signature		Date Considered	
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Sheet	5	of	15	Attorney Docket Number
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		Isotope-Mass Spectrometric Technique" <i>Abstract, 5th Conference on Retroviruses and Opportunistic Infections</i> , Chicago Illinois	
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85.		CHRISTIANSEN Mark P. et al. (October 2000) "Effect of Dietary Energy Restriction on Glucose Production and Substrate Utilization in Type 2 Diabetes" <i>Diabetes</i> 49: 1691-1699	
86.		CLAYTON, David (1991) "Replication and Transcription of Vertebrate Mitochondrial DNA" <i>Annu. Rev. Cell Biol.</i> 7:453-478	
87.		COHEN, A. et al. (1983) "Purine and Pyrimidine Metabolism in Human T Lymphocytes," <i>J. Biol. Chem.</i> 258(20):12334-12340	
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94.		DEEKES, S. et al. (1998) "Viral Load and CD4+ T Cell Changes in Patients Failing Potent Protease Inhibitor Therapy" <i>Abstract, 5th Conference on Retroviruses and Opportunistic Infections, Session 53, 419:158</i>	
95.		DEEKES, Steven G. et al. (2002) "CD4+ T Cell Kinetics and Activation in Human Immunodeficiency Virus-Infected Patients Who Remain Viremic Despite Long-Term Treatment with Protease Inhibitor-Based Therapy" <i>Journal of Infectious Diseases</i> 185:315-323	
96.		DEKKER, Evelien et al. (1997) "Glucose Homeostasis in Children with Falciparum Malaria: Precursor Supply Limits Gluconeogenesis and	

Examiner Signature		Date Considered
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sf-1910278



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Sheet	6	of	15	Attorney Docket Number	416272003800

	Glucose Production" <i>J Clin Endocrinol Metabol</i> 82: 2514-2521	
97.	DIMITROV, D.S. et al. (1995) Scientific Correspondence, <i>Nature</i> 375:194-195	
98.	ETNIER, E.L. et al. (1984) "Metabolism of Organically Bound Tritium in Man" <i>Radiat. Res.</i> 100: 487-502	
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102.	GOZ, Barry (1978) "The Effects of Incorporation of 5-Halogenated Deoxyuridines into DNA of Eukaryotic Cells" <i>Macological Reviews</i> 29, (4): 249-272	
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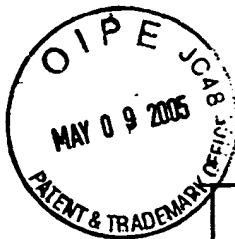
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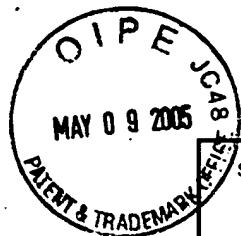
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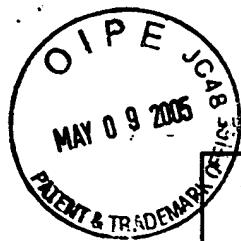
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216.		WOLTHERS et al. (1998) "Rapid CD4+ T-Cell Turnover in HIV-1 Infection: a Paradigm Revisited," Immunol. Today 19(1):44-48	

Examiner Signature		Date Considered	
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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

				Complete if Known	
Application Number	10/523,250				
Filing Date	January 26, 2005				
First Named Inventor	Marc K. HELLERSTEIN				
Art Unit	Not Yet Assigned				
Examiner Name	Not Yet Assigned				
Sheet	15	of	15	Attorney Docket Number	416272003800

217.	WOLTHERS, K.C. et al. (1996) "T Cell Telomere Length in HIV-1 Infection: No Evidence for Increased CD4+ T Cell Turnover," <i>Science</i> 274:1543-1547	
218.	WOOD, H.G. et al. (1963) "Estimation of Pathways of Carbohydrate Metabolism," <i>Biochemische Zeitschrift</i> 338:809-847	
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220.	ZILVERSPLIT, D.B. et al. (1943) "On the Calculation of 'Turnover Time' and 'Turnover Rate' from Experiments Involving the Use of Labeling Agents," <i>J. of General Physiology</i> 26(3):325-331	

\*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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